SECTION 8

AMBIENT AIR IMPACT ANALYSES

The Boise site is located in Ada County, Idaho. Northern Ada County is a maintenance area for carbon monoxide (CO) and particulate matter smaller than ten microns (PM_{10}). Ada County is considered in attainment for all other pollutants. The Boise terminal is considered a major source of volatile organic compound (VOC) emissions, which are precursors to ozone. The terminal's PM_{10} and CO emissions are relatively minor and are respectively due to fugitive dust from roads and combustion by-products at the vapor incineration systems. Therefore, emissions from this facility are not expected to impact existing ambient air quality, attainment status, or classification of the area.

SECTION 9

COMPLIANCE CERTIFICATION PLAN

Compliance Determination

The following table lists all regulations identified in the existing permit requiring a compliance demonstration method. All emission points that the regulation applies to are identified, along with a brief description of the requirements. For each regulation, the table indicates if the facility is in or out of compliance and how compliance will be demonstrated. The checklists used for recordkeeping and reporting purposes are shown after the compliance determination table. The checklists identify the applicable permit condition number, the submittal requirements such as semiannual, annual, as needed, etc., and the frequency of monitoring, if required, such as daily, weekly, monthly. As shown in the compliance determination table, some permit conditions require data to be readily available and some conditions require notification or submittal of data to the State.

The Boise terminal is currently in compliance with all applicable regulations.

Compliance Determination/Demonstration Method Boise Terminal

Emission	Regulation ID	Description	Source Type.	Regulated Pollutant or	Allowable Limit or		Compliance
Polms	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			Activity	Regulrement	in C	Demonstration Method
Facility-Wide	132	Idaho State	Regulations - IDAP	A 58.01.01, "Rules fo	r the Control of Air Pollution in Ida	ho"	
-		Correction of Condition	General	Excess emissions	Complete appropriate and reasonable corrective actions. Submit report.	X	Submit Report/Checklist
Facility-Wide	133	Startup, Shutdown, and Maintenance Requirements	General	Any equipment or emission unit	Notify Department, report and record event.	X	Submit Report/Checklist
Facility-Wide	134	Upset, Breakdown, and Safety Requirements	General	Any equipment or emission unit	Implement good practices, expedite as possible, minimize impacts, notify Department, report and record event.	X	Submit Report/Checklist
Facility-Wide	135	Excess Emissions Reports	General	Excess emissions	Complete report with required information.	X	Submit Report/Checklist
Facility-Wide	136.01,.02,.03	Excess Emissions Records	Excess Emissions Records	Excess emissions	Record and maintain records as required.	X	Recordkeeping/Checklist
Facility-Wide	157	Test Methods and Procedures	General	Source test	Provide notice; conduct in accordance with State procedures.	X	Submit Notice and Report/Checklist
Facility-Wide	322.06,.07,.08,,0 9,.11	Standard Contents of Tier I Operating Permits	General	Monitoring, Recordkeeping, Reporting, Testing and Periodic Compliance Certifications	Comply as specified in permit.	X	Monitoring, Recordkeeping, Testing, Report/Checklist
Facility-Wide	600-616	Rules for Control of Open Burning	General	Open Burning	Facility shall comply with open burning requirements to minimize impacts.	X	Reasonable Precautions
Facility-Wide	625	Visible Emissions	General	Opacity	No greater than 20% opacity for more than 3 minutes in any 60	X	Submit Report/Checklist
Facility-Wide	650-651	Rules for Control of Fugitive Dust	Roads	Particulate matter	minute period All reasonable precautions shall be taken to prevent particulate	X	Reasonable Precautions
Facility-Wide	728	Distillate Fuel Oils	Diesel Fuels	Sulfur	matter from becoming airborne ASTM Grade 1 Fuel Oil - 0.3% sulfur by weight; ASTM Grade 2 Fuel Oil - 0.5% sulfur by weight	X	Shipper Agreement

Emission	Regulation ID	Description	Source Type	Regulated Pollutant or	Allowable Limit or		Compliance
Points		E COMMON TO THE STATE OF THE ST		Activity	Requirement	In	Out Demonstration Method
Facility-Wide	775-776	Rule for Control of Odors	General	Odors	No odorous gases, liquids or solids can be released in such quantities as to cause air pollution	X	Recordkeeping/Checklist
Truck Loading Rack and Vapor Containment and Destruction System	625	Visible Emissions	Incineration units	Opacity	No greater than 20% opacity for more than 3 minutes in any 60 minute period	Х	Submit Report/Checklist
On-Site and Norwood Soil Vapor Extraction Systems	322.01,.07	Standard Content of Tier I Operating Permits	Thermal Oxidizer	Firing of Unit	Unit shall be fired exclusively by system vapors and/or natural gas, and records shall be maintained for five years.	X	Recordkeeping/Checklist
On-Site and Norwood Soil Vapor Extraction Systems	625	Visible Emissions	Incineration units	Opacity	No greater than 20% opacity for more than 3 minutes in any 60 minute period	X	Submit Report/Checklist
Insignificant Activities	317.01	Applicability Criteria for Insignificant Activities	Insignificant Activities	Welding and water and space heaters.	Section contains criteria for identifying insignificant activities under the Tier I operating permit program.	X	Submit required information with operating permit application.
Insignificant Activities	322.06	Monitoring Requirements for Tier I Operating Permits	Insignificant Activities	Welding and water and space heaters.	No additional monitoring, recordkeeping, or reporting is required beyond facility-wide requirements for insignificant activities.	X	See facility-wide requirements.
0 6: 6 !!	T			Permit Requirem	ents	·	
On-Site Soil Vapor Extraction System*	Permit #0020- 0026	State of Idaho - Permit to Construct	Vapor Extraction System	Benzene, TSP, PM ₁₀ , NO _x , CO, VOC, SO ₂ , opacity	Benzene - 0.054 lbs/hr; TSP, PM ₁₀ - 0.012 lbs/hr; NO _x - 1.2 lbs/hr; CO - 0.74 lbs/hr; VOC - 5.7 lbs/hr; SO ₂ - 0.0015 lbs/hr; Monitoring, operating, and reporting requirements are also specified	X	Submit Report/Checklist
Facility-Wide	D (0, C, 1	[a] , , , , , , , , , , , , , , , , , , ,	40 Co	ie of Federal Regulat			
racility-wide	Part 60, Subpart A	Standards of Performance for New Sources – Gen. Prov.	Truck loading rack	Notification and recordkeeping;	Notification of construction date, startup dates, actual startup date, and changes must be submitted; records must be maintained;	X	Recordkeeping/Checklist

Emission Points	Regulation ID	Description	Source Type	Regulated Pollutant or Activity	Allowable Limit or Requirement	In C	Compliance
Facility-Wide	Part 60, Subpart A	Standards of Performance for New Sources – Gen. Prov.	Truck loading rack	Performance tests.	Performance tests must be conducted in accordance with procedures contained within Subpart XX	X	Recordkeeping/Checklist t
Facility-Wide	Part 61 Subpart M	National Emission Standard for Asbestos	General	Asbestos	Must comply with requirements when conducting any renovation or demolition activities.	X	Compliance with Applicable Subpart
Facility-Wide	Part 68, Subpart A	General Chemical Accident Prevention Provisions	General	Regulated substances	Comply with requirements of this provision for regulated substances over threshold values.	X	Submit Report
Facility-Wide	Part 82 Subpart F	Recycling and Emissions Reduction	General	Recycling and emissions reduction	Comply with applicable standards for recycling and emissions reduction.	X	Compliance with Applicable Subpart
Storage Tanks (A201, 202, 203, 204, & 206))	Part 60 Subpart Kb	Standards of Performance for VOL Storage Vessels for which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Tank (less than 75 m ³)	Record keeping	Records showing dimension and capacity of tank shall be readily accessible for the life of the tank	Х	Recordkeeping/Checklist
Truck Loading Rack and Vapor Containment and Destruction System	Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Truck loading rack	Vapor collection; record keeping;	VOC emission from vapor collection system limited to 35 mg/l gasoline loaded;	X	Submit Report/Checklist
Truck Loading Rack and Vapor Containment and Destruction System	Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Truck loading rack	Inspections;	Racks and vapor collections systems must be inspected monthly, during loading, for vapor leaks;	X	Submit Report/Checklist

Emission Points	Regulation ID	Description.	Source Type	Regulated Pollutant or Activity	Allowable Limit or Requirement	In Ou	Compliance Demonstration Method
Truck Loading Rack and Vapor Containment and Destruction System	Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Truck loading rack	Performance testing;	Compliance must be demonstrated using test procedures specified;	X	Submit Report/Checklist
Truck Loading Rack and Vapor Containment and Destruction System	Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Truck loading rack	Reporting and recordkeeping;	Records on tank truck vapor tightness must be kept on file in a permanent form available for inspection, and updated yearly; a record of each monthly leak inspection shell be kept on file for at least two years;	X	Submit Report/Checklist
Truck Loading Rack and Vapor Containment and Destruction System	Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Truck loading rack	Truck loading operations	Vapor-tight gasoline tank trucks only; documentation shall be recorded for each truck; vapor tightness compliance is required.	х	Submit Report/Checklist

Compliance Plan Checklists/Forms

Below are the forms currently used by the facility to assure continued compliance with the Tier I operating permit monitoring and recordkeeping requirements.

Yea Month: Page: of

Daily L_ & Flowrate (No Submittal Required)

								Quantity of HC Supplied to the Vapor
Day of Week	Date (sample at least once per day)		Inspector Initials	Temperature of Influent to the Vapor Incinerator	LEL of Influent to the Vapor Incinerator (% by volume)	CO2 of Influent to the Vapor Incinerator (% by volume)	Flowrate of influent to the Vapor	- Incinerator
example: Monday	3/23/2002	10:00:00	PKG	1500 F	1.00%	2.40%	750	1.37
Monday								
Tuesday								
Wednesday	; !							
Thursday								
Friday							; ; ;	
Saturday							>	· · · · · · · · · · · · · · · · · · ·
Sunday	0 4 1 1 5 5							

How to calculate HC (developed by CRTC): gallons of HC = influent flowrate x {(LEL% x 0.005) + (CO2% x 0.074)}

Yea Montn:

Month: Page: of Weekly Fugitive_imission Inspection (No Submittal Required)

Source of Existing Wein (ejolity) / Are italia DENEY Emissions (none if Inspector Conditions :Taken (water spray, Corrective Date Initials Time applicable) (windy, etc.) eta) Action Taken example: southeast wind, 3/19/2001 10:00:00 PKG Tank Yard 40 degrees F water spray 3/23/2001

Year: Month: Page:

Date of			Findings: Location of Leak or No Leak Detected (Using Sight, Sound or		Severity of Leak, If	Leak Determination		Reason If Repaired Affer 15	Inspector Name, Signature &	Submit with Semiannual
Inspection	Time	Place*	Smell)	If Detected.	Detected	Method	Date Repaired	Days of Detection	Affiliation	Report
example : 3/01/2001	10:00:00	vcs	leak in pipe	loose valve	slow leak	sound	3/1/2001	N/A	Joe Smith, CPL	mark for submittal
ex <i>ample</i> : 3/01/2001	13:00:00	LR	hose	defective hose	slow leak	sight	3/16/2001	hose on order	Joe Smith, CPL	mark for submittal
example: 3/01/2001	11:00:00	VPS	no leak	N/A	N/A	N/A	N/A	N/A	Joe Smith, CPL	mark for submittal
		vcs								
		VPS								
-		LR								

						<u> </u>				

6/8/2005

Data required under condition B.17

Vapor Collection Inspection Compliance Checklists.xls

^{*} Vapor collection system (VCS), vapor processing system (VPS), or loading rack (LR) during loading of trucks.

Sampling Port Liceation (influent or effluent, need two of each)	Date Sample Collected	Time Sample Collected		Volumetric Flowrate (scim) from bioventing wells *	Volumetric Flowrate (scim) in P- 101 suction line**	Volumetric Flowrate (scim) in P- 100 suction line***		For each sample: Composition	For each sample average sample molecular weight	For each sample: net heating value	For each sample composition of hydrocarbon fraction	For each sample mole fraction of benzene in hydrocarbon fraction		Benzene detection limit of equipment	Submit within 30 days of date sampled. Sample no later than 10 days after the start of quarter in which system operated (1/1, 4/1, 7/1, 10/1). Submit to Air Quality Permit Compliance, Department of Environmental Quality, Boise Regional Office, 1445 N Orchard St. Boise, Idaho 83706-2238 and EPA Region 10, Air Operating Permits OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101
example: Influent	4/5/2001	13:00:00	PKG	500	500	500	1500F			see atta	ched report		Yes	0.001	mark for submittal to DEQ and EPA by 5/05/01
Influent															
Influent							-								
Effluent									,,,,,,						
Effluent															

^{*}using flow element 201

VES Sampling and GC Analyses Compliance Checklists.xls

6/8/2005

Data required under condition number C.10.2

^{**}downstream of dilution air inlet using flow element 244
***downstream of dilution air inlet using flow element 214

Quarter:

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		Inspector	Source of Emissions (opacity >20%; none if		Corrective Action	Date Corrective	Report Exceedance (>20%) in Annual
Date example :	Time	Initiais		Existing Conditions	Taken	Action Taken	Compliance Certification
4/02/2001	8:00:00	PKG	none	N/A	N/A	N/A	N/A
						1	
						; ; ; ; ; ;	
						; ; ;	
						; ; ; ; ;	
1 1 1				·			; ; ;

6/8/2005

Visible Emissions Inspection Compliance Checklists.xls

Data required under condition number A.8, B.1, C.1, D.1

* see number 21 under general provisions for annual compliance certification requirements.

Year: Month:

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	ASTM Grade of		
Tank Number	Fuel Stored in Tank	Weight Percent of Fuel	Submit with Semiannual Report
example: 205- CPL	1	0.3	mark for submittal
9-CPL	! ! ! !		
14-CPL			
162-CPL) 	 	
163-CPL	, 		
164-CPL	! ! ! !		
165-CPL	; ; ; ;		
166-CPL			
200-CPL			
201-CPL			
202-CPL			
203-CPL			
204-CPL			
205-CPL			
206-CPL			
207-CPL			

Semiannual Tank Sulfur Content

Year: Month:

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Tank Number	ASTM Grade of Fuel Stored in Tank	Weight Percent of Fuel	Submit with Semiannual Report
400-CPL		ļ	
401-CPL	<u> </u>	<u>.</u>	
402-CPL) ; ; ; ;	
403-CPL		<u> </u>	
404-CPL		; ; ; ;	
1-NWTC			
2-NWTC	1 1 1 1 1	i i i i	
3-NWTC			
4-NWTC	; ; ; ; ; ; ;	j 	
5-NWTC			
6-NWTC			
7-NWTC			
8-NWTC			
12-NWTC			
13-NWTC			
167-NWTC			

Semiannual Tank Sulfur Content

Year: Month:

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	ASTM Grade of Fuel Stored in	Weight Percent of	Submit with
Tank Number	Tank	Fuel	Semiannual Report
208-NWTC			
209-NWTC	 	 	
A201-NWTC			
A202-NWTC			
A203-NWTC			-9
A204-NWTC			
A205-NWTC			
A206-NWTC			
A207-NWTC			

6/8/2005

Data required under condition number B.23

Tank Frick Owner	Owner Address	Tank Truck ID	Testing 11	Date of Test	n ised Tesler Name	Witnessing trispector Name, Ir Any	Test Results - Actual Pressure Change in 5 minutes, min of water	Submit with Semiarmost Report
example: ABC	111 Mainstreet, Anywhere, USA 00111	123abc	DEF, Anywhere, USA	3/23/2001	Joe Smith	None	-12	mark for submittal

	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************				
		*****************************						***************************************
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
······								

Vapor E stion System Annual Thermal Oxidizer Stack Emissions

		Is lb/hr actual or	annual hours of	annual	Submit with Periodic
Pollutant	lb/hr	allowable?	operation	emissions (lb)	Compliance Certification
example: PM10	0.012	allowable	1000	12	
PM10					
NOx					
CO					
VOC					
SO2					
benzene					

Yea.

Page: c

Fugitive Emissic. Jontrol - As Needed (No Submittal Required)

Date	Time	Starr Initials	Location	Control Method Used
example: 3/23/01	15:00:00	PKG	Workyard	Water

Fugitive Emission Control Compliance Checklists.xls

Year.

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Fugitive Dust C. plaint - As Needed (No Submittal Required)

Date	Time	Complaint	Valid (yes/no)	Corrective Action Taken	Date Corrective Action Taken
example: 3/23/01	8:00:00	Dust entering yard of Mary Smith at 350 Elm St.	Yes	Water Spray	3/23/2001
			: : : : : : : : : : : : : :		
			1 1 1 1 1 1 1 1 1 1 1		
			i i i i i i		
			: : : : : : : : : : :		

Yea. Page:

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Odor Com_P. .it - As Needed (No Submittal Required)

Date	Time	Staff Initials	Complaint	Valid (yes/no)	Corrective Action Taken	Date Corrective Action Taken
example: 3/23/2001	22:00:00	PKG	Sulfur smell complaint from neighbor, John Doe, at 123 Elm St.	No	None	N/A
		; ; ; ; ;				
		i i i i i				
	~~~~					
						i : :

Date	Time	Staff Initials	Specific Location	Equipment or Emissions Unit Involved	Call (208)-373-0313 to Determine If Almospheric Stagnation Advisory and/or a Wood Stove Curtailment Has Been Declared	Cause of Event and Whether Startup, Shutdown or Maintenance	Stibmit 2 Hours Prior t Event - Fax to (208)- 373-0287 or call (208) 373-1550
example: 5/01/01	7:00:00	PKG	Vapor Extraction System	Thermal Oxidizer	called, conditions ok	Startup	Faxed 5/01/01, 5:00 a.m.
		1 1 1 1 1 1 1 1 1					

Prior to S,S or M Compliance Checklists.xls

As Needed - Fost Startup, Shutdown,

intenance Excess Emissions Report

Time Period of Excess Emissions	Equipment or Unit ID	Cause of Event and Whether Startup, Shutdown, or Maintenance	Quantilly of Each Pollutant Emitted Above Emission Standard	Corrective Action	Responsible Official Sign to Certify	If Requesting Compliance under 131.02 Responsible Official Sign to Certify Compliance w/ 131, 132, 133.01 - 133.03, 134.01 134.05, 135 and 136*	Mairitain Report in Log	Submit Report within 15 days after start of event. Submit to Air Quality Permit Compliance, Department of Environmental Quality, Boise Regional Office, 1445 N Orchard St, Boise, Idaho 83706-2239 and for NSPS Equipment Submit to EPA Region 10, Air Operating Permits, OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101
example: 5/01/01; 7:00 am - 8:00 am	Thermal Oxidizer	Startup	Total VOC = 6 lb/hr; Total benzene = 0.06 lb/hr	none	responsible official sig.	N/A	<b>√</b>	mark for submittal by 5/16/01 to DEQ
				:				

Post- S,S or M Compliance Checklists.xls

#### 6/8/2005

^{*} Signature confirms that based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete. Data required under condition number A.9.4.

Yea Page: o

Date	Hour	Staff Initials	Specific Location	Equipment or Emissions Unit Involved	Cause of Event and Whether Upset, Breakdown, or Safety Event	Submit within 24 hours after start of event - Fax to (208)- 373-0287 or call (208) 373-1550
example: 5/15/01	9:00:00	PKG	Loading Rack	Vapor Collection System	Upset, connection disrupted, vapors escaped to ambient air.	Faxed, 9:30 am, 5/15/01
	s.					
-						

Upset, Breakdown, or Safety Event - E:

Emissions Final Report - As Needed

Requesting Complian fficial Sign to Certify Máintain <del>R</del>eport In Lo Book On-Site (daho 83706-2239 and for 33<u>,01 - 138 03, 1</u>34 0 NSRS Equipment Statem to (44,08),135 and (86) 134.05, 135 and 136 EPA Region 10, Air Operating emils, GAQ2107/31200/Sixt Avenue, Spattle, WA 96101 Upset, connection Stopped example: disrupted, vapors Total VOC = 40 loading; 5/15/01, Vapor mark for submittal by 5/30/01 to Collection escaped to ambient milligrams/liter corrected 9:00am -DEQ & EPA 9:15 am System of gasoline connection. responsible official sig.

Upset, Breakdown - Final Report Compliance Checklists.xls

Data required under condition number A.9.4

Tank Number	Tank Height	Tank Radius	Capacity Calculation	No Submittel Required - Retain this record for life of tank
A201				
202				
203			 	
204				
206				·
1				,
1				•••••